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Substitute for form 1449B/PTO			<b>Complete if Known</b>		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Application Number	to be assigned	
			Filing Date	to be assigned	
			First Named Inventor	Shlomo BEN-HAIM, et al.	
			Group Art Unit		
			Examiner Name		
Sheet	2	of	2	Attorney Docket Number	20066.84

10/03/98  
10/23/01

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/CL/		H. Antoni, et al., "Polarization Effects of Sinusoidal 50-Cycle Alternating Current on Membrane Potential of Mammalian Cardiac Fibres, Pflugers Arch. 314, pgs. 274-291 (1970)	

Examiner Signature	/Carl Layno/	Date Considered	07/13/2007
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<b>Substitute for form 1449B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/039,845		
		Filing Date	October 23, 2001		
		First Named Inventor	Shlomo Ben-Haim		
		Art Unit	3762		
		Examiner Name			
Sheet	2	of	4	Attorney Docket Number	501049.20503 (20066.84)

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/CL/		R, RANJAN & N.V. THAKOR (1995) Annals of Biomedical Engineering 23: pps 812-821 "Electrical Stimulation Of Cardiac Myocytes"	
/CL/		N. NANNINI & K. HORCH (1991) IEEE Transactions on Biomedical Engineering 38: pps 769-776: "Muscle Recruitment With Intrafascicular Electrodes"	
/CL/		D.M. BERS (1991) "Excitation Contraction Coupling And Cardiac Contractile Force"; Chapter 2, pg 17, Kluwer Academic	
/CL/		S.B. KNISLEY et al. (19912) Circulation Research 70: pgs 707-715 "Effect Of Field Stimulation On Cellular Repolarization In Rabbit Myocardium"	
/CL/		S.M. DILLION (1991) Circulation Research 69: pps 842-856; "Optical Recordings In The Rabbit Heart Show That Defibrillation Strength Shocks Prolong The Duration Of ..."	
/CL/		J. FLEISCHHAUER et al. (1995) Circulation 92: pps 587-594; "Electrical Resistances Of Interstitial And Microvascular Space As Determinants Of The Extracellular Electrical..."	
/CL/		A. TANIGUCHI et al.; Am. J. Physiol. pg 267: H694-H705; "Inhomogeneity Of Cellular Activation Time And Vmax In Normal Myocardial Tissue Under Electrical Field..."	
/CL/		R. LUBART et al. (1992) J. Photochemical Photobiology B 14; pps 337-341 "Effect Of Light On Calcium Transport In Bull Sperm Cells"	
/CL/		V.A. LOGINOV (1992) Aviakosm Ekolog Med 26: pgs 49-51; "Accumulation Of Calcium Ions In Myocardial Sarcoplasmic Reticulum Of Restrained Rats Exposed To The ..."	
/CL/		J.L. SCHWARTZ et al. (1990) Bioelectromagnetics 11: pps 349-358; "Exposure Of Frog Hearts To CW Or Amplitude-Modified VHF Fields: Selective Efflux Of Calcium Ions..."	

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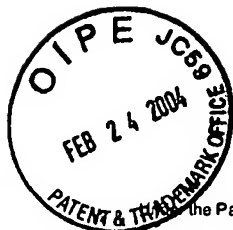
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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/039,845
Filing Date	October 23, 2001
First Named Inventor	Shlomo Ben-Haim
Art Unit	3762
Examiner Name	
Attorney Docket Number	501049.20503 (20066.84)

Sheet 3 of 4

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/CL/		E. LINDSTROM et al. (1995) Bioelectromagnetics 16: pps 41-47; "intracellular Calcium Oscillations In A T-Cell Line After Exposure To Extremely-Low-Frequency Magnetic..."	
/CL/		V.A. LOGINOV et al. (1991) Kosm Biol Aviakosm Med 15; pps 51-53; "Effects Of An Impulse Electromagnetic Field On Calcium Ion Accumulation In The Sarcoplasmic..."	
/CL/		L.A. COULTON & A.T. BARKER (1993) Phys. Med. Biol. 38; pps 347-360; "Magnetic Fields And Intracellular Calcium; Effects On Lymphocytes Exposed To Conditions For..."	
/CL/		A. PUMIR et al. (1994) Proc. R. Soc. Lond. B. Biol. Sci. 257; pps 129-134; "Control of Rotating Waves In Cardiac Muscle: Analysis Of The Effect Of Electric Fields"	
/CL/		M. SBLONONOW et al. (1983) Am. J. Physical Medicine 62: pps 71-82; "Control Of Muscle Contractile Force Through Indirect High-Frequency Stimulation"	
/CL/		J.D. BRONZINO (1995) "Biomedical Engineering Handbook", Chapter 82.5; pg 1288, "IEEE press/CRC press"	
/CL/		J.R. WINDLE et al. (1986) Am. J. Cardiol. 57: pps 381-386; "Subthreshold Conditioning Stimuli Prolong Human Ventricular Refractoriness"	
/CL/		M. FROMER & M. SHENASA (1992) J. Am. Coll. Cardio. 20; pps 879-883; "Ultrarapid Subthreshold Stimulation For Termination Of Atrioventricular Node Reentrant Tachycardia"	
/CL/		B. SKALE et al. (1985) J. Am. Coll. Cardiol. 6: pps 133-140; "Inhibition Of Premature Ventricular Extrastimuli By Subthreshold Conditioning Stimuli"	
/CL/		M. YOKOYAMA (1976) Japanese HEart Journal 17; pps 315-325; "The Phase Of Supernormal Excitation In Relation To The Strength Of Subthreshold Stimuli"	

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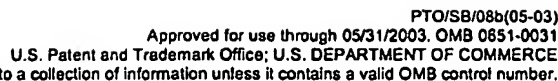
<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 14

**Complete if Known**

Application Number	10/039,845
Filing Date	October 23, 2001
First Named Inventor	Shlomo Ben-Haim
Art Unit	3762
Examiner Name	
Attorney Docket Number	501049.20503

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
/CL/	AA	US- 3,572,345	Mar. 1971	Auphan	
	AB	US- 3,587,567	Jun. 1971	Schiff	
	AC	US- 3,651,805	Mar. 1972	Breiling	
	AD	US- 3,942,536	Mar. 1976	Mirowski, et al.	
	AE	US- 3,952,750	Apr. 1976	Mirowski, et al.	
	AF	US- 4,030,509	Jun. 1977	Heilman et al.	
	AG	US- 4,106,494	Aug. 1978	McEachern	
	AH	US- 4,164,216	Aug. 1979	Person	
	AI	US- 4,184,493	Jan. 1980	Langer, et al.	
	AJ	US- 4,202,340	May, 1980	Langer, et al.	
	AK	US- 4,223,678	Sept. 1980	Langer, et al.	
	AL	US- 4,237,895	Dec. 1980	Johnson	
	AM	US- 4,273,114	Jun. 1981	Berkalow, et al.	
	AN	US- 4,312,354	Jan. 1982	Walters	
	AO	US- 4,316,472	Feb. 1982	Mirowski, et al.	
	AP	US- 4,384,585	May 1983	Zipes	
	AQ	US- 4,387,717	Jun. 1983	Brownlee, et al.	
	AR	US- 4,403,614	Sep. 1983	Engle, et al.	
	AS	US- 4,407,288	Oct. 1983	Langer, et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	†
		Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>4</sup> (if known)				
/CL/	AT	JP 04-117967	Apr. 1992	Masayoshi		
	AU	JP 4-365493	Dec. 1992	Yutaka		
	AV	JP 7-126600	May 1995	Kazusuke		
	AW	JP 8-243176	Sep. 1996	Kjell		
	AX	EP 0 148 687	Feb. 1988	Henry et al.		
	AY	EP 0 314 078	Oct. 1993	Mehra		

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet	2	of	14	Application Number	10/039,845
				Filing Date	October 23, 2001
				First Named Inventor	Shlomo Ben Haim
				Art Unit	3762
				Examiner Name	
				Attorney Docket Number	501049.20503

**U. S. PATENT DOCUMENTS**

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		Number-Kind Code <sup>2</sup> (if known)			
/CL/	AZ	US- 4,440,172	Apr. 1984	Langer	
	BA	US- 4,506,680	Mar. 1985	Stokes	
	BB	US- 4,543,956	Oct. 1985	Herscovici	
	BD	US- 4,566,456	Jan. 1986	Koning, et al.	
	BE	US- 4,572,191	Feb. 1986	Mirowski, et al.	
	BF	US- 4,628,934	Dec. 1986	Pohndorf et al	
	BG	US- 4,651,716	Mar. 1987	Forester, et al.	
	BH	US- 4,674,508	Jun. 1987	DeCote	
	BI	US- 4,679,572	Jul. 1987	Baker, Jr.	
	BJ	US- 4,690,155	Sep. 1987	Hess	
	BK	US- 4,726,279	Feb. 1988	Kepler, et al.	
	BL	US- 4,726,379	Feb. 1988	Altman et al.	
	BM	US- 4,765,341	Aug. 1988	Mower, et al.	
	BN	US- 4,830,006	May 1989	Haluska, et al.	
	BO	US- 4,928,688	May, 1990	Mower	
	BP	US- 4,979,507	Dec. 1990	Heinz, et al.	
	BQ	US- 4,998,531	Mar. 1991	Bocchi et al.	
/CL/	BR	US- 5,003,976	Apr. 1991	Alt	
		US-			

**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>2</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
/CL/	BS	EP 0 727 241	Aug. 1996	Noren		
	BT	WO 91/19534	Dec. 1999	Freeman		
	BU	WO 92/00716	Jan. 1992	Waide		
	BV	WO 95/08316	Mar. 1993	Vistung		
	BW	WO 97/25101	Jul. 1997	Beh-Haim		
/CL/	BX	WO 98/10831	Mar. 1998	Ben-Haim		

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/CL/	BY	US- 5,020,544	Jun. 1991	Dahl et al.	
	BZ	US- 5,022,396	Jun. 1991	Watanabe	
	CA	US- 5,044,375	Sep. 1991	Bach, Jr. et al.	
	CB	US- 5,083,564	Jan. 1992	Scherlag	
	CC	US- 5,087,243	Feb. 1992	Avital	
	CD	US- 5,097,843	Mar. 1992	Buchanan	
	CE	US- 5,111,815	May 1992	Mower	
	CF	US- 5,129,394	Jul. 1992	Mehra	
	CG	US- 5,137,021	Aug. 1992	Wayne et al.	
	CI	US- 5,156,147	Oct. 1992	Warren, et al.	
	CJ	US- 5,156,149	Oct. 1992	Hudrik	
	CK	US- 5,161,527	Nov. 1992	Nappholz et al.	
	CL	US- 5,163,428	Nov. 1992	Pless	
	CO	US- 5,199,428	Apr. 1993	Obel et al.	
/CL/	CQ	US- 5,213,098	May 1993	Bennett et al.	
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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
/CL/	CR	WO 00/04947	Feb. 2000	Darvish et al.		

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/CL/	CS	US- 5,236,413	Aug. 1993	Feiring	
	CU	US- 5,282,785	Feb. 1994	Shapland et al.	
	CV	US- 5,284,491	Feb. 1994	Sutton et al.	
	CW	US- 5,286,254	Feb. 1994	Shapland et al.	
	CX	US- 5,305,745	Apr. 1994	Zacouto	
	CY	US- 5,327,887	Jul. 1994	Nowakowski	
	CZ	US- 5,320,642	Jun. 1994	Scherlag	
	DA	US- 5,320,543	Jun. 1994	Roline et al.	
	DB	US- 5,346,506	Sept. 1994	Mower et al.	
	DC	US- 5,353,800	Oct. 1994	Pohndorf et al.	
	DD	US- 5,366,486	Nov. 1994	Zipes, et al.	
	DE	US- 5,368,040	Nov. 1994	Carney	
	DF	US- 5,370,665	Dec. 1994	Hudrlik	
	DG	US- 5,387,419	Feb. 1995	Levy et al.	
	DH	US- 5,386,837	Feb. 1995	Sterzer	
	DI	US- 5,391,192	Feb. 1995	Lu et al.	
	DJ	US- 5,391,199	Feb. 1995	Ben-Haim	
	DK	US- 5,398,683	Mar. 1995	Edwards et al.	
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (If known)				

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 5 of 14

**Complete if Known**

Application Number	10/039,845
Filing Date	October 23, 2001
First Named Inventor	Shlomo Ben Haim
Art Unit	3762
Examiner Name	
Attorney Docket Number	501049.20503

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
/CL/	DL	US- 5,415,629	May 1995	Henley	
	DM	US- 5,417,717	May 1995	Salo, et al.	
	DN	US- 5,419,763	May 1995	Hildebrand	
	DO	US- 5,425,363	Jun. 1995	Wang	
	DP	US- 5,443,485	Aug. 1995	Housworth et al.	
	DR	US- 5,447,520	Sept. 1995	Spano et al.	
	DS	US- 5,458,568	Oct. 1995	Racchini et al.	
	DT	US- 5,464,020	Nov. 1995	Lerner	
	DU	US- 5,468,254	Nov. 1995	Hahn et al.	
	DV	US- 5,472,453	Dec. 1995	Alt	
	DW	US- 5,476,484	Dec. 1995	Hedberg	
	DX	US- 5,476,485	Dec. 1995	Weinberg et al.	
	DY	US- 5,476,497	Dec. 1995	Mower et al.	
	DZ	US- 5,482,052	Jan. 1996	Lerner	
	EA	US- 5,499,971	Mar. 1996	Shapland et al.	
	EB	US- 5,501,662	Mar. 1996	Hofmann	
	EC	US- 5,514,162	May 1996	Bornzin et al.	
/CL/	ED	US- 5,520,642	May 1996	Bigagli et al.	
		US-			

FOREIGN PATENT DOCUMENTS						
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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

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Sheet 6 of 14

**Complete if Known**

Application Number	10/039,845
Filing Date	October 23, 2001
First Named Inventor	Shlomo Ben Haim
Art Unit	3762
Examiner Name	
Attorney Docket Number	501049.20503

**U. S. PATENT DOCUMENTS**

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		Number-Kind Code <sup>2</sup> (if known)			
/CL/	EE	US- 5,531,764	Jul. 1996	Adams et al.	
	EF	US- 5,540,722	Jul. 1996	Clare et al.	
	EG	US- 5,556,421	Sep. 1996	Prutchi et al.	
	EH	US- 5,568,809	Oct. 1995	Ben-Haim	
	EI	US- 5,571,143	Nov. 1996	Hoegnelid	
	EJ	US- 5,584,804	Dec. 1996	Stevens et al.	
	EK	US- 5,584,868	Dec. 1996	Salo et al.	
	EL	US- 5,587,200	Dec. 1996	Lorenz et al.	
	EM	US- 5,601,609	Feb. 1997	Duncan	
	EN	US- 5,601,611	Feb. 1997	Fayram et al.	
	EO	US- 5,626,622	May 1997	Cooper	
	EP	US- 5,634,899	Jun. 1997	Shapland et al.	
	EQ	US- 5,649,966	Jul. 1997	Noren et al.	
	ER	US- 5,651,378	Jul. 1997	Matheny et al.	
	ES	US- 5,622,687	Sept. 1997	Hedberg et al.	
	ET	US- 5,674,251	Oct. 1997	Combs et al.	
	EU	US- 5,674,259	Oct. 1997	Gray	
	EV	US- 5,683,431	Nov. 1997	Wang	
	EW	US- 5,687,734	Nov. 1997	Dempsey et al.	

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**Complete if Known**Sheet 7 of 14

Application Number	10/039,845
Filing Date	October 23, 2001
First Named Inventor	Shlomo Ben Haim
Art Unit	3762
Examiner Name	
Attorney Docket Number	501049.20503

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
/CL/	EX	US- 5,713,935	Feb. 1998	Prutchi et al.	
	EY	US- 5,720,768	Feb. 1998	Verboven-Nelissen	
	FA	US- 5,738,096	Apr. 1998	Ben Haim	
	FB	US- 5,738,105	Apr. 1998	Kroll	
	FD	US- 5,755,740	May 1998	Nappholtz	
	FE	US- 5,782,876	Jul. 1998	Flammang	
	FF	US- 5,782,881	Jul. 1998	Lu et al.	
	FG	US- 5,792,198	Aug. 1998	Nappholz	
	FH	US- 5,792,208	Aug. 1998	Gray	
	FI	US- 5,797,967	Aug. 1998	KenKnight	
	FK	US- 5,807,234	Sep. 1998	Bui et al.	
	FL	US- 5,807,306	Sep. 1998	Shapland et al.	
	FN	US- 5,865,787	Feb. 1999	Shapland et al.	
/CL/	FP	US- 5,906,607	May 1999	Taylor et al.	
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FOREIGN PATENT DOCUMENTS						
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		Country Code <sup>3</sup> *Number <sup>4</sup> *Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			

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**INFORMATION DISCLOSURE  
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Sheet	8	of	14	Application Number	10/039,845
				Filing Date	October 23, 2001
				First Named Inventor	Shlomo Ben Haim
				Art Unit	3762
				Examiner Name	
				Attorney Docket Number	501049.20503

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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/CL/	FR	US- 5,927,284	Jul. 1999	Borst et al.	
	FS	US- 6,032,074	Feb. 2000	Collins	
	FT	US- 6,032,672	Mar. 2000	Taylor	
	FU	US- 6,041,252	Mar. 2000	Walker et al.	
	FV	US- 6,067,470	May 2000	Mower	
	FW	US- 6,071,305	Jun. 2000	Brown et al.	
	FX	US- 6,086,582	Jul. 2000	Altman et al.	
	FY	US- 6,136,019	Oct. 2000	Mower	
	FZ	US- 6,141,586	Oct. 2000	Mower	
	GA	US- 6,151,586	Nov. 2000	Brown	
	GB	US- 6,178,351	Jan. 2001	Mower	
	GC	US- 6,295,470	Sep. 2001	Mower	
	GD	US- 6,337,995	Jan. 2002	Mower	
	GE	US- 6,341,235	Jan. 2002	Mower	
	GF	US- 6,343,232	Jan. 2002	Mower	
	GG	US- 6,411,847	Jun. 2002	Mower	
/CL/	GH	US- RE38,119	May 2003	Mower	
		US-			
		US-			

**FOREIGN PATENT DOCUMENTS**

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Application Number	10/039,845
Filing Date	October 23, 2001
First Named Inventor	Shlomo Ben Haim
Art Unit	3762
Examiner Name	

Sheet 9 of 14

Attorney Docket Number 501049.20503

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/CL/	GI	Antman, E.M. et al. "Treatment of 150 Cases of Life-Threatening Digitalis Intoxication with Digoxin-Specific Fab Antibody Fragments;" June 1990 Circulation; Vol. 81: No. 6: pp. 1744-1752.	
/CL/	GK	Bach, S.M., "Tach Arrhythmia Detection, Implantable Cardioverter Defibrillator Therapy: The Engineering-Clinical Interface, Chapter 15, pp. 303-323, Eds, Mark W. Kroll and Michael H. Lehmann, Kluwer Academic Publishers, JISA, 1997	
/CL/	GL	Bakker, P.F., et al., "Beneficial Effects of Biventricular Pacing of Congestive Heart Failure", PACE, Vol. 17, April 1994, Part 11, one page	
/CL/	GM	Bakker, P.F., et al., "Biventricular Pacing Improves Functional Capacity in Patients with End-Stage Congestive Heart Failure" PACE, Vol. 17, April 1995, Part 11, one page	
/CL/	GN	Bargheer K. et al., "Prolongation of Monophasic Action Potential Duration and the Refractory Period in the Human Heart by Tedisamil, a New Potassium-Blocking Agent", J. Eur Heart 15 (10), Oct. 1994, pp. 1409-1414	
/CL/	GO	Borst, et al. "Coronary Artery Bypass Grafting Without Cardiopulmonary Bypass and Without Interruption of Native Coronary Flow Using a Novel Anastomosis site restraining device ('Octopus')", Journal of the American College of Cardiology, 27 (6), May 1996.	
/CL/	GP	Cano, N.J. et al. "Dose-Dependent Reversal of Digoxin-Inhibited Activity of an In-Vitro NA+K+ATPase Model by Digoxin-Specific Antibody;" May 1996; pp. 107-1011; Toxicology Letters; Vol. 85; No. 2	
/CL/	GQ	Cazeau S. et al., "Multisite Pacing for End-Stage Heart Failure: Early Experience", Pacing and Clinical Electrophysiology Vol. 19, Nov. 1996, Part 11, pp. 1748-1757	
/CL/	GR	Cooper, W., "Postextrasystolic Potentiation: Do We Really Know What It Means and How To Use It?" Circulation, Vol. 88, No. 6, Dec. 1993, pp. 2962-2971.	

Examiner  
Signature

/Carl Layno/

Date  
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07/13/2007

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/039,845
		Filing Date	October 23, 2001
		First Named Inventor	Shlomo Ben Haim
		Art Unit	3762
		Examiner Name	
Sheet 10	of 14	Attorney Docket Number	501049.20506

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/CL/	GS	Dillon, SM., abstract of "Synchronized Repolarization After Defibrillation Shocks. A Possible Component of the Defibrillation Process Demonstration By Optical Recordings in Rabbit Heart", Circulation, May 1992, Vol. 85, No. 5, pp. 1865-78	
/CL/	GT	Fain, E.S., et al. "Improved Internal Defibrillation Efficacy with a Biphasic Waveform", American Heart Journal 117 (2), February 1989, pp. 358-364.	
/CL/	GU	Fleg, J.L. et al., "Impact of Age on the Cardiovascular Response to Dynamic Upright Exercise in Healthy Men and Women", J. Appl. Physiol., Vol. 78, 1995, p. 890.	
/CL/	GV	Foster, A.H, et al., "Acute Hemodynamic Effects of Atrio-Biventricular Pacing in Humans", 1995, The Society of Thoracic Surgeons Vol. 59, pp. 294-299.	
/CL/	GW	Franz, M.R., "Bridging the Gap Between Basic and Clinical Electrophysiology: What Can be Learned from Monophasic Action Potential Recordings?", J. Cardiovasc Electrophysiol 5(8), August 1994, pp. 699-710	
/CL/	GX	Franz, M.R., "Method and Theory of Monophasic Action Potential Recording", Prog. Cardiovasc Dis 33 (6), May-June 1991, pp. 347-368	
/CL/	GY	Franz, M.R., "Progress in Cardiovascular Disease: Monophasic Action Potential Symposium, I. Introduction", Prog. Cardiovasc Dis 33 (6), May-June 1991 pp. 345-346	
/CL/	HA	Fu, P and B.J. Bardakjian, "System Identification of Electrically Coupled Smooth Muscle Cells: The Passive Electrically Coupled Smooth Muscle Cells: The Passive Electrical Properties", published in IEEE Transactions on Biomedical Engineering, 38(11), pp. 1130-1140, 1991.	
/CL/	HB	Ham, Frederic M and Han, Soowhan, "Classification of Cardiac Arrhythmias Using Fuzzy Artmap", IEEE Transactions on Biomedical Engineering, Vol. 43, No. 4, Apr. 1996.	

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Application Number	10/039,845
Filing Date	October 23, 2001
First Named Inventor	Shlomo Ben Haim
Art Unit	3762
Examiner Name	

Sheet	11	of	14	Attorney Docket Number	501049.20503
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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
/CL/	HC	Hoffman, B.F. et al., "Effects of Postextrasystolic Potentiation on Normal & Failing Hearts", Bulletin of New York Academy of Medicine, 41 in 1965, pp. 498-534.	
/CL/	HD	Josephson, M.E., "Clinical Cardiac Electrophysiology: Techniques and Interpretations, 2nd. Edition, Lea & Febiger, Philadelphia, 1991	
/CL/	HE	King, A. et al., "The Inotropic Action of Paired Pulse Stimulation in the Normal and Failing Heart: An Experimental Study", Cardiovascular Research, Vol. 2, April 1968, pp. 122-129	
/CL/	HF	Knisley et al., "Prolongation and Shortening of Action Potentials by Electrical Shocks in Frog Ventricular Muscle", American Journal of Physiology 6 (Heart Circ. Physiol. 35, 1994) pp. H2348-H2358	
/CL/	HG	Koller, et al., "Relation Between Repolarization and Refractoriness During Programmed Electrical Stimulation in the Human Right Ventricle", Circulation 91(9), 2378-2384, 1995.	
/CL/	HH	Langberg, Jonathan J. et al., "Identification of Ventricular Tachycardia with Use of the Morphology of the Endocardial Electrogram", Circulation, Vol. 77, No. 6, Jun. 1988.	
/CL/	HI	McVeigh, E.R. et al., "Noninvasive Measurement of Transmural Gradients in Myocardial Strain with MR Imaging", Radiology 180 (3), Sep. 1991, pp. 677, 679-684.	
/CL/	HJ	Mercando, A.D., et al., "Automated Detection of Tachycardias by Antitachycardia Devices", Chapter 100, pp. 943-948, in Cardiac Electrophysiology from Cell to Bedside, Eds. Douglas P. Zipes and Jose Jalife, publishers W.B. Saunders Company (1990).	
/CL/	HK	Moran, R.J. et al; "Digoxin-Specific Fab Fragments Impair Renal Function in the Rat." 1994; pp. 854-856; Journal of Pharmacy and Pharmacology; Vol. 46: No 10.	
/CL/	HL	Morse, et al., "A Guide to Cardiac Pacemakers, Defibrillators and Related Products", Droege Computing Services, Durham, NC.	

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/CL/	HM	Merck Manual, The, Section 3, the 16th Edition of the Merck Manual, Published in 1992	
/CL/	HN	Paul, VE., et al. "Automatic Recognition of Ventricular Arrhythmias Using Temporal Electrogram Analysis" Pace, Vol. 14, pp. 1265-1273, (1991).	
/CL/	HO	Qiuzhen Xue et al., "Neural-Network-Based Adaptive Matched Filtering for QRS Detection", IEEE Transactions on Biomedical Engineering, Vol. 39, No. 4, Apr. 1992	
/CL/	HP	Saksena et al., "Dual-site Atrial Pacing in Atrial Fibrillation", JACC, Vol. 28, No. 3, September 1996, pp. 687-94	
/CL/	HQ	Shumaik, G.M. et al, "Oleander Poisoning; Treatment with Digoxin-Specific Fab Antibody Fragments;" July 1988; pp. 732-735; Annals of Emergency Medicine; Vol. 17; No. 7	
/CL/	HR	Sweeny RJ, et al., abstract of "Countershock Strength-Duration Relationship for Myocardial Refractory Period Extension", Acad Emerg. Med., Jan. 1995, Vol. 2, No. 1, pp. 57-62	
/CL/	HS	Sweeny RJ, et al., abstract of "Refractory Interval After Transcardiac Shocks During Ventricular Fibrillation", Circulation, Dec. 1996, Vol. 94, No. 11, pp. 2947-52.	
/CL/	HT	Sweeny RJ, et al., abstract of "Ventricular Refractory Period Extension Caused by Defibrillation Shocks", Circulation, September 1990, Vol. 82, No. 3, pp. 965-972	
/CL/	HU	Talit, U. et al., "The Effect of External Cardiac Pacing on Stroke Volume", Pace 13, May 1990, pp. 598-60	
/CL/	HV	Tsong, T.Y., "Electroporation of Cell Membranes" August 1991; pp. 297-306; Biophysical Journal; Vol. 60	

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/CL/	HW	Verrier, et al, "Electrophysiologic Basis for T Wave Alternans as an Index of Vulnerability to Ventricular Fibrillation" Journal of Cardiovascular Electrophysiology, Vol. 5, pp. 445-461, 1994	
/CL/	HX	Webster, John G., ed., Design of Cardiac Pacemakers, IEEE Press, Piscataway, New Jersey, 1995	
/CL/	HY	Wessale, J.L. et al., "Stroke Volume and Three Phase Cardiac Output Rate Relationship with Ventricular Pacing" Pace 13, May 1990, pp. 673-680	
/CL/	HZ	Wirtzfeld, A. et al., "Physiological Pacing: Present Status and Future Developments", Pace 10 January-February 1987, Part I, pp. 41-57	
/CL/	IA	Zipes, D et al., Cardiac Electrophysiology from Cell to Bedside, 1990, W.B. Saunders Co., Philadelphia	
/CL/	IB	Guldant Product Catalogue, 2001, 2 pages	
/CL/	IC	"The Latest Tetralogy of Fallot Discussion with Graphical Support Including Video of Echocardiography and Catheterization" Pediatric Electrophysiology Book ("An On-Line Resource for Pediatric Critical Care")	
/CL/	ID	Brumwell D.A. et al. "The Amplifier: Sensing the Depolarization", Implantable Cardioverter Defibrillator Therapy: The Engineering-Clinical Interface, Chapt. 14, pp. 275-302, Eds. Kroll and Lehmann, Kluwer Academic Publishers, USA 1997	
/CL/	IE	Gill RJ, et al., abstract of "Refractory Period Extension During Ventricular Pacing at Fibrillatory Pacing Rates" Pacing Clin. Electrophysiol, March 1997, vol. 20, No. 3, pp. 647-653	
/CL/	IF	Hardage, M.L. and Sweeney, M.B., "Anti-Tachycardia Pacing and Cardioversion", Implantable Cardioverter Defibrillator Therapy: The Engineering-Clinical Interface, Chapt. 6, pp. 325-342, Eds. Mark W. Kroll and Michael H. Lehmann, Kluwer Academic Publishers U.S.A 1997	

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